

1                    ABSTRACT OF THE DISCLOSURE2                    Object: To broaden the range of photographing of object,  
3                    until illumination of 0.02 lux.4                    Construction: In the case of sufficient bright object,  
5                    photographing is performed by a conventional circuit at a high  
6                    S/N ratio, at a high degree. In the case of an insufficient  
7                    bright object, inserting auxiliary amplifying circuit  $m$ ,  $m_1$ ,  $m_2$   
8                    or  $em$  and ignoring the S/N ratio, and raising the amplification  
9                    degree. In the case of sufficient bright object, photographing  
10                   is performed by high S/N ratio, and high degree, in the case of  
11                   insufficient bright object, an auxiliary amplifying circuit  $m$ ,  
12                    $m_1$ ,  $m_2$  or  $em$  is inserted ignoring the S/N ratio until utility  
13                   noise composite of 20dB (10%).

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